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COMPUTER SCIENCE

SUPPLEMENT ONE

A DISSERTATION BIBLIOGRAPHY

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Introduction

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AN INTERACTIVE ON-LINE DIGITAL IMAGE PROCESSING SYSTEM FOR ACOUSTIC IMAGE ENHANCEMENT LEE, CHIN-HWA (PH.D. 1976 UNIVERSITY OF CALIFORNIA, SANTA BARBARA) 381p 37/03-B, p 1367 **BAJ76-20509**

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AN INTEGRATED CIRCUIT FAULT MODEL FOR DIGITAL SYSTEMS KETELSEN, MARK LOREN (PH.D. 1976 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 148p 37/10-B, p 5264 **BAJ77-09054**

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- AUTOMATIC TEST GENERATION FOR LARGE DIGITAL CIRCUITS.** HALLIN, THOMAS GEORGE (PH.D. 1978 NORTHWESTERN UNIVERSITY) 141p 37/11-B, p 5773 **BAJ77-10C33**
- ANALYSIS AND DESIGN OF DIGITAL DATA TRANSMISSION SYSTEMS.** JENQ, YIH-CHYUN (PH.D. 1978 PRINCETON UNIVERSITY) 121p 37/09-B, p 4597 **BAJ77-0780**
- DESIGN OF FIXED AND VARIABLE DIGITAL FILTERS USING GENERALIZED DELAY UNITS.** ERFANI, SHERVIN (PH.D. 1978 SOUTHERN METHODIST UNIVERSITY) 154p 37/11-B, p 5773 **BAJ77-09788**
- REAL-TIME ADAPTIVE DIGITAL VIDEO COMPRESSION.** KNAUER, SCOTT CARROLL (PH.D. 1978 STANFORD UNIVERSITY) 242p 37/12-B, p 6257 **BAJ77-12656**
- TECHNIQUES IN DIGITAL SIGNAL PROCESSING.** NARASIMHA, MADHAIYAL JANARDHAN IYENGAR (PH.D. 1978 STANFORD UNIVERSITY) 123p 36/12-B, p 6313 **BAJ76-13052**
- ERROR LATENCY IN DIGITAL CIRCUITS.** SHEDLETSKY, JOHN JAMES (PH.D. 1978 STANFORD UNIVERSITY) 184p 37/05-B, p 2379 **BAJ76-26076**
- ERROR MANAGEMENT IN DIGITAL COMPUTER INPUT/OUTPUT SYSTEMS.** USAS, ALAN MICHAEL (PH.D. 1978 STANFORD UNIVERSITY) 426p 37/05-B, p 2380 **BAJ76-26086**
- A NETWORK MODEL AND CONDUCTOR SHAPE CLASSIFICATION SCHEME FOR THE MACRO-ROUTING OF DIGITAL PRINTED CIRCUIT BOARDS.** KELLER, ARNOLD CONRAD (PH.D. 1978 STATE UNIVERSITY OF NEW YORK AT BUFFALO) 192p 37/05-B, p 2487 **BAJ76-26534**
- THE COMPLETE VERIFICATION OF DIGITAL SYSTEM COMPONENT DESIGNS.** SWEETON, DAVID CHESTER (PH.D. 1978 STATE UNIVERSITY OF NEW YORK AT BUFFALO) 170p 37/02-B, p 912 **BAJ76-7061**
- THE DESIGN OF MULTI-DIMENSIONAL FIR DIGITAL FILTERS BY PHASE CORRECTION.** MANNY, MICHAEL THOMAS (PH.D. 1978 THE UNIVERSITY OF TEXAS AT AUSTIN) 93p 37/08-B, p 4088 **BAJ77-03947**
- DIGITAL COLOR IMAGE PROCESSING AND PSYCHOPHYSICS WITHIN THE FRAMEWORK OF A HUMAN VISUAL MODEL.** FAUGERAS, OLIVIER DOMINIQUE (PH.D. 1978 UNIVERSITY OF UTAH) 132p 37/04-B, p 1775 **BAJ76-23281**
- ON THE IMPLEMENTATION OF REAL-TIME DIGITAL FILTERS.** SHIVASHANKARIAH, SAJJAN GANGAPPA (PH.D. 1975 AUBURN UNIVERSITY) 143p 36/02-B, p 855 **BAJ75-18035**
- SUCCESSIVE APPROXIMATION ANALOG-TO-DIGITAL CONVERSION TECHNIQUES IN MOS INTEGRATED CIRCUITS.** MCCREARY, JAMES LEO (PH.D. 1975 UNIVERSITY OF CALIFORNIA, BERKELEY) 224p 37/01-B, p 389 **BAJ76-15296**
- AUTOMATED TESTING AND RELIABILITY AND AVAILABILITY OF DIGITAL SYSTEMS.** KOVIJANIC, PREDRAG GAVRILLO (PH.D. 1975 CASE WESTERN RESERVE UNIVERSITY) 132p 36/05-B, p 2352 **BAJ76-19224**
- THE STRUCTURE OF A DIGITAL SYSTEM DESIGN LANGUAGE.** MUNERUDDIN, AHMED (PH.D. 1975 UNIVERSITY OF DENVER) 166p 36/05-B, p 2397 **BAJ75-23136**
- A GENERAL METHOD FOR EVALUATION OF FUNCTIONS AND COMPUTATIONS IN A DIGITAL COMPUTER.** ERCEGOVAC, MILOŠ DRAGUTIN (PH.D. 1975 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 118p 36/09-B, p 4583 **BAJ76-06758**
- THE REAL TRANSFORM METHOD IN DIGITAL FAULT DIAGNOSIS.** PAPADANOUDIS, SPIROS GEORGE (PH.D. 1975 LEHIGH UNIVERSITY) 236p 36/07-B, p 3524 **BAJ75-24011**
- A GENERALIZED APPROACH TO DIGITAL INTERFACING.** PARKER, ALICE CLINE (PH.D. 1975 NORTH CAROLINA STATE UNIVERSITY AT RALEIGH) 263p 36/08-B, p 4099 **BAJ76-02419**
- FINITE WORDLENGTH IN DIGITAL SIGNAL PROCESSING.** TRONG, TRAN (PH.D. 1975 PRINCETON UNIVERSITY) 155p 37/04-B, p 1831 **BAJ76-22608**
- DISCRETE ON-LINE SYSTEM IDENTIFICATION AND ITS APPLICATION TO DIGITAL FLIGHT CONTROL.** KOTOB, SAMIR MOHAMAD SALEM (PH.D. 1975 RENSSELAER POLYTECHNIC INSTITUTE) 226p 36/12-B, p 6310 **BAJ76-13738**
- MODELING AND RELIABILITY OF REDUNDANT DIGITAL SYSTEMS.** LOAH, JACQUES JEAN (PH.D. 1975 STANFORD UNIVERSITY) 141p 36/04-B, p 1854 **BAJ75-21861**
- ON THE SEGMENTATION AND ANALYSIS OF CONTINUOUS MUSICAL SOUND BY DIGITAL COMPUTER.** MOORER, JAMES ANDERSON (PH.D. 1975 STANFORD UNIVERSITY) 228p 36/09-B, p 4585 **BAJ76-05774**
- DESIGN AND EVALUATION OF ULTRA-RELIABLE HYBRID REDUNDANT DIGITAL SYSTEMS.** OGUS, ROY CHARLES (PH.D. 1975 STANFORD UNIVERSITY) 200p 35/12-B, p 5893 **BAJ75-13569**
- THE UTILIZATION OF PROCEDURE MODELS IN DIGITAL IMAGE SYNTHESIS.** NEWELL, MARTIN EDWARD (PH.D. 1975 UNIVERSITY OF UTAH) 109p 36/07-B, p 3477 **BAJ76-29694**
- POWER SYSTEM PROTECTION WITH DIGITAL COMPUTERS.** SOOD, AJAY KUMAR (PH.D. 1975 WASHINGTON STATE UNIVERSITY) 292p 36/07-B, p 3526 **BAJ76-00329**
- PARALLEL IMAGE PROCESSING WITH AN OPTICAL DIGITAL COMPUTER.** LEE, DAVID TAI WAI (PH.D. 1975 YALE UNIVERSITY) 184p 36/12-B, p 6310 **BAJ76-13619**
- DIGITAL FILTER**
- ERROR ACCUMULATION IN CANONIC DIGITAL FILTER REALIZATION.** SMITH, THEODORE JAMES (PH.D. 1975 UNIVERSITY OF HOUSTON) 97p 36/04-B, p 1862 **BAJ75-22374**
- DIGITAL FILTER STRUCTURES AND APPLICATION TO IDENTIFICATION.** VISWANATHAN, MURLI MANOHAR (PH.D. 1975 SOUTHERN METHODIST UNIVERSITY) 187p 36/06-B, p 2959 **BAJ75-26303**
- DIGITAL FILTERING**
- TWO-DIMENSIONAL DIGITAL FILTERING AND ITS UNCORRELATED ERROR ANALYSIS.** NI, MING-QUENN (PH.D. 1975 THE UNIVERSITY OF TEXAS AT AUSTIN) 108p 36/10-B, p 5185 **BAJ76-08084**
- DIGITAL FILTERS**
- EFFICIENT ACCURACY REQUIREMENTS FOR DIGITAL FILTERS.** CAPLAN, LAWRENCE CLARK (PH.D. 1975 UNIVERSITY OF CALIFORNIA, LOS ANGELES) 126p 36/04-B, p 1849 **BAJ75-21848**
- REALIZATION THEORY APPLIED TO THE DESIGN OF DIGITAL FILTERS.** BELFIELD, WILLIAM ROHRMAN (PH.D. 1975 UNIVERSITY OF MARYLAND) 144p 37/02-B, p 900 **BAJ76-17776**
- DIGITAL FILTERS IN AUTOMATIC RATIONAL FUNCTION APPROXIMATION OF ANALOG SYSTEMS.** PLICE, WILLIAM ANDREW (PH.D. 1975 UNIVERSITY OF MINNESOTA) 272p 36/08-B, p 4072 **BAJ76-04102**
- NON-UNIFORMLY SAMPLED RECURSIVE DIGITAL FILTERS.** ANAZIA, CYRIL OKELEKE (PH.D. 1975 THE UNIVERSITY OF OKLAHOMA) 154p 37/01-B, p 378 **BAJ76-16793**
- TIME DOMAIN DESIGN OF RECURSIVE DIGITAL FILTERS—A PARALLEL APPROACH.** SALEM, EDWARD ROBERT (PH.D. 1975 STATE UNIVERSITY OF NEW YORK AT BUFFALO) 115p 36/10-B, p 5186 **BAJ76-08105**
- DIGITAL-TO-ANALOG**
- A CHARGE-TRANSFER MULTIPLYING DIGITAL-TO-ANALOG CONVERTER.** ALLEN, FREDERICK J., JR. FRANCISCO (PH.D. 1978 UNIVERSITY OF CALIFORNIA, BERKELEY) 156p 36/02-B, p 822 **BAJ77-15598**
- DIGITIZED**
- EFFICIENT CONTOUR EXTRACTION FROM NOISY DIGITIZED IMAGES.** ASHKAR, GEORGE PHILIP (PH.D. 1978 RENSSELAER POLYTECHNIC INSTITUTE) 166p 38/01-B, p 295 **BAJ77-13701**
- DIGRAPHS**
- AN AUTOMATED METHOD FOR MEMORY ALLOCATION USING ACYCLIC DIGRAPHS.** MARCHBANKS, MINER PECK, JR. (PH.D. 1978 TEXAS A&M UNIVERSITY) 121p 37/12-B, p 6229 **BAJ77-12576**
- DIMENSIONAL**
- ENCODING, REDUCTION AND CLASSIFICATION OF TWO-DIMENSIONAL DATA BY FACTOR ANALYSIS TECHNIQUES.** YOON, CHUN SUP (PH.D. 1976 POLYTECHNIC INSTITUTE OF NEW YORK) 120p 37/04-B, p 1834 **BAJ76-23457**
- DIRECTORY**
- DIRECTORY DESIGN AND RECORD ALLOCATION FOR LIST AND CLUSTER FILES.** YANG, CHUNG-SHU HUBERT (PH.D. 1978 CORNELL UNIVERSITY) 269p 37/11-B, p 5752 **BAJ77-11032**
- DISCIPLINE-ORIENTED**
- AN INVESTIGATION OF THE METHODOLOGIES FOR PARTITIONING A LARGE BIBLIOGRAPHIC DATA BASE INTO DISCIPLINE-ORIENTED SUBFILES.** FEATHERINGHAM, TOMMY ROWE (PH.D. 1975 UNIVERSITY OF PITTSBURGH) 222p 36/09-A, p 5611 **BAJ76-05435**
- DISCOVERY**
- AM, AN ARTIFICIAL INTELLIGENCE APPROACH TO DISCOVERY IN MATHEMATICS AS NEURISTIC SEARCH.** LENAT, DOUGLAS BRUCE (PH.D. 1978 STANFORD UNIVERSITY) 354p 37/10-B, p 5210 **BAJ77-07115**
- DISCRETE**
- ON THE ANALYSIS OF THE BEHAVIOR OF A CLASS OF DISCRETE EVENT SYSTEMS.** GUERDIA, MARIO ALBARRAN (PH.D. 1977 CALIFORNIA WESTERN RESERVE UNIVERSITY) 357p 36/06-B, p 1288 **BAJ77-18820**
- ACTIVITY ANALYSIS, A METHODOLOGY FOR THE DISCRETE PROCESS MODELING OF INFORMATION SYSTEMS IN ORGANIZATIONS WITH AN APPLICATION TO A GOVERNMENTAL DATABASE.** HACKATHORN, RICHARD DALE (PH.D. 1978 UNIVERSITY OF CALIFORNIA, IRVINE) 263p 37/06-A, p 3244 **BAJ76-29261**
- A THEORY OF DISCRETE SIMULATIONS: AN APPLICATION TO MAJOR RAILWAY SYSTEMS.** JONES, ALBERT FRANCIS (PH.D. 1976 CLEMSON UNIVERSITY) 93p 37/04-B, p 1776 **BAJ76-21045**
- UNCONSTRAINED NONLINEAR DISCRETE SEARCH.** GLANKWAHMDEE, ATTAKORN (PH.D. 1978 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 223p 37/10-B, p 5311 **BAJ77-09001**
- ANALYSIS AND SIMPLIFICATIONS OF DISCRETE EVENT SYSTEMS AND JACKSON QUEUEING NETWORKS.** MELAMED, BENJAMIN (PH.D. 1978 THE UNIVERSITY OF MICHIGAN) 327p 37/10-B, p 5212 **BAJ77-07991**
- SCHEDULE INDEPENDENT SIMULATION (SIS): A SPACE APPROACH TO DISCRETE EVENT SIMULATION.** NORTON, SUSANNE RUTH (PH.D. 1978 NORTHWESTERN UNIVERSITY) 127p 37/07-B, p 3511 **BAJ77-01316**
- A COMPARISON OF SEQUENTIAL AND ASSOCIATIVE COMPUTING OF PRIORITY QUEUES WITH APPLICATIONS TO DISCRETE SIMULATION AND TIME FLOW MECHANISMS.** LANDSON, BARRY MAURICE (PH.D. 1976 SYRACUSE UNIVERSITY) 189p 37/11-B, p 5748 **BAJ77-09872**
- DISCRETE ON-LINE SYSTEM IDENTIFICATION AND ITS APPLICATION TO DIGITAL FLIGHT CONTROL.** KOTOB, SAMIR MOHAMAD SALEM (PH.D. 1975 RENSSELAER POLYTECHNIC INSTITUTE) 226p 36/12-B, p 6310 **BAJ76-13738**
- A DISCRETE OPTIMIZATION ALGORITHM BASED ON BINOMIAL POLYTOPES.** URSIC, SILVIO (PH.D. 1975 THE UNIVERSITY OF WISCONSIN - MADISON) 68p 36/07-B, p 3478 **BAJ75-18626**
- DISCRETE-SPACE**
- THE APPLICATION OF DISCRETE-SPACE FACILITY LOCATION TECHNIQUES TO THE MULTIPERIOD DESIGN OF COMPUTER COMMUNICATION NETWORKS EMPLOYING CONCENTRATORS.** MORRIS, ANDREW A., JR. (PH.D. 1975 POLYTECHNIC INSTITUTE OF NEW YORK) 154p 36/04-B, p 1889 **BAJ75-21390**
- DISCRETE-TIME**
- COVARIANCE-INVARIANT DISCRETE-TIME SYSTEMS.** PERL, JOSEPH (PH.D. 1976 COLORADO STATE UNIVERSITY) 126p 37/12-B, p 6260 **BAJ77-12057**
- NEW RESULTS ON DISCRETE-TIME TIME-VARYING LINEAR SYSTEMS.** HAFEZ, KHALID MOHAMMAD (PH.D. 1975 GEORGIA INSTITUTE OF TECHNOLOGY) 94p 36/09-B, p 4584 **BAJ75-26207**
- DISCRETE-VARIABLE**
- SOLVING DISCRETE-VARIABLE MULTIPLE-CONSTRAINT NON-LINEAR PROGRAMS: THE DECISION-STATE METHOD.** DHARMADHIKARI, VINAY KRISHNAJI (PH.D. 1975 SOUTHERN METHODIST UNIVERSITY) 126p 36/04-B, p 1892 **BAJ75-21413**
- DISCRIMINANT**
- DISCRIMINANT GRAMMARS FOR PATTERN CLASSIFICATION.** FILIPSKI, ALAN JAMES (PH.D. 1978 MICHIGAN STATE UNIVERSITY) 91p 37/08-B, p 2668 **BAJ76-27094**
- DISCRIMINATION**
- PATTERN DISCRIMINATION BASED ON AN EXPONENTIAL ERROR CRITERION.** ZUCKER, JOEL STEVEN (PH.D. 1975 STANFORD UNIVERSITY) 105p 36/04-B, p 1864 **BAJ75-21909**
- DISJUNCTIVE**
- SCHEDULING ON DISJUNCTIVE GRAPHS.** FITZPATRICK, DONALD WILLIAM (PH.D. 1977 THE JOHNS HOPKINS UNIVERSITY) 108p 37/10-B, p 5310 **BAJ77-07724**
- DISK**
- A PARAMETRIC DISK SCHEDULING POLICY.** SINGHANIA, RAM PRASAD (PH.D. 1978 UNIVERSITY OF CALIFORNIA, RIVERSIDE) 166p 37/06-B, p 2974 **BAJ76-29273**
- DISPATCH**
- A NEURISTIC ALGORITHM FOR THE MULTI-TERMINAL VEHICLE DISPATCH PROBLEM USING THE MODIFIED SWEEP ALGORITHM.** JOHNSON, JERRY GEORGE (PH.D. 1975 UNIVERSITY OF MISSOURI - ROLLA) 192p 36/01-B, p 327 **BAJ75-15627**
- QUADRATIC PROGRAMMING FOR OPTIMAL ACTIVE AND REACTIVE POWER DISPATCH USING SPECIAL TECHNIQUES FOR REDUCING STORAGE REQUIREMENTS.** DAYAL, GYANESHWAR (PH.D. 1975 VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY) 117p 36/08-B, p 4096 **BAJ76-02090**
- DISPLAY**
- A REMOTE DISPLAY SYSTEM UTILIZING COMPRESSED DATA TRANSMISSION.** CRENSHAW, EDESL GLEN (PH.D. 1977 THE PENNSYLVANIA STATE UNIVERSITY) 163p 38/02-B, p 828 **BAJ77-17681**
- THE ANALYSIS AND DISPLAY OF COMPUTER PROGRAM EXECUTION.** SIGLE, JOHN WALTER (PH.D. 1977 TEXAS A&M UNIVERSITY) 146p 38/04-B, p 1796 **BAJ77-20415**
- MULTICENTERED COMPUTER ARCHITECTURE FOR REAL-TIME DATA ACQUISITION AND DISPLAY.** ELLIS, LARRY JAY (PH.D. 1978 IOWA STATE UNIVERSITY) 203p 37/11-B, p 5772 **BAJ77-10310**
- COMPUTER-PRODUCED FACES AS AN ICONIC DISPLAY FOR COMPLEX DATA.** JACOB, ROBERT JOSEPH KASSEL (PH.D. 1976 THE JOHNS HOPKINS UNIVERSITY) 203p 37/04-B, p 1776 **BAJ76-22926**
- THREE-DIMENSIONAL SURFACE FINDING AND DISPLAY OF MOVING OBJECTS.** LIU, HSUN KAO (PH.D. 1978 STATE UNIVERSITY OF NEW YORK AT BUFFALO) 139p 37/08-B, p 4056 **BAJ77-03558**
- AUTOMATIC CURVE FITTING FOR INTERACTIVE DISPLAY.** CHUNG, WON LYANG (PH.D. 1975 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 100p 36/09-B, p 4582 **BAJ76-06723**
- THE EFFECT OF DISPLAY RATE AND MEMORY SUPPORT ON COMPUTER-ASSISTED LEARNING.** DENNIS, VERL ELDON (PH.D. 1975 THE OHIO STATE UNIVERSITY) 334p 36/06-B, p 2918 **BAJ75-26567**
- DISSEMINATION**
- THE PRICING OF INFORMATION: A MODEL FOR SELECTIVE DISSEMINATION OF INFORMATION.** HARRIS, ZAL HARRIET WILLIAMS (PH.D. 1975 UNIVERSITY OF CALIFORNIA, BERKELEY) 284p 37/01-A, p 9 **BAJ76-15435**
- DISTANCE**
- SEQUENTIAL PROCEDURES AND DISTANCE MEASURES IN DATA PROCESSING.** LI, ROBERT YUAN-SHIH (PH.D. 1977 RICE UNIVERSITY) 173p 38/03-B, p 1336 **BAJ77-19273**
- MINIMAL DISTANCE ANALYSIS OF SYNTAX ERRORS IN COMPUTER PROGRAMS.** TEITELBAUM, RAY (PH.D. 1976 CARNegie-MELLON UNIVERSITY) 99p 37/01-B, p 340 **BAJ76-15375**
- A DISTANCE MEASURE FOR AUTOMATIC SEQUENTIAL DOCUMENT CLASSIFICATION.** KAR, GAUTAM (PH.D. 1975 THE OHIO STATE UNIVERSITY) 168p 36/11-B, p 5685 **BAJ76-09987**
- QUADRATIC MINIMIZATION AND LEAST DISTANCE PROGRAMMING.** SHARIQ, SYED ZAFARUL ISLAM (PH.D. 1975 VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY) 109p 35/10-B, p 5023 **BAJ75-07564**
- DISTILLATION**
- MINI-COMPUTER CONTROL OF A LABORATORY DISTILLATION COLUMN.** SILGALIS, EUGENIUS MINDAUGAS (PH.D. 1975 THE UNIVERSITY OF AKRON) 104p 36/11-B, p 5727 **BAJ76-09622**
- DISTRIBUTED**
- THE DISTRIBUTED PIPELINE.** COOPER, RICHARD GORDON (SC.D. 1978 THE GEORGE WASHINGTON UNIVERSITY) 192p 37/09-B, p 4558 **BAJ77-05281**
- CHARACTERIZATION OF A DISTRIBUTED DATA BASE SYSTEM.** GRAPA, ENRIQUE (PH.D. 1976 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 179p 37/10-B, p 5209 **BAJ77-09005**
- MESSAGE SWITCHING PROTOCOLS IN DISTRIBUTED COMPUTER NETWORKS.** (VOLUMES I AND II) TAJIBNAPIS, WILLIAM DJOHANSHAH (PH.D. 1976 THE UNIVERSITY OF MICHIGAN) 412p 37/03-B, p 1339 **BAJ76-19264**
- ON THE DESIGN OF FAULT-TOLERANT DISTRIBUTED COMPUTING SYSTEMS.** FUNG, HING-SUM SAM (PH.D. 1976 NORTHWESTERN UNIVERSITY) 119p 37/11-B, p 5747 **BAJ77-10024**

- THE ARCHITECTURE OF A FUNCTIONALLY DISTRIBUTED COMPUTER SYSTEM.** RESZKA, ALFONS (PH.D. 1976 NORTHWESTERN UNIVERSITY) 164p. 37/11-B. p.5780 **BAJ77-10082**
- DESIGN CONSIDERATIONS FOR DISTRIBUTED DATA BASES IN COMPUTER NETWORKS.** CHENG, TU-TING (PH.D. 1976 THE OHIO STATE UNIVERSITY) 223p. 37/11-B. p.5740 **BAJ77-10807**
- SYSTEM DESIGN OF THE DISTRIBUTED LOOP COMPUTER NETWORK (DLCN).** REAMES, CECIL CLAY (PH.D. 1976 THE OHIO STATE UNIVERSITY) 252p. 37/02-B. p.856 **BAJ76-18028**
- DESIGN OF A DISTRIBUTED DATA BASE MANAGEMENT SYSTEM FOR A HOMOGENEOUS DISTRIBUTED COMPUTER NETWORK.** LOWY, HARVEY DAVID (PH.D. 1976 STATE UNIVERSITY OF NEW YORK AT STONY BROOK) 249p. 37/07-B. p.3511 **BAJ77-00242**
- OPTIMIZATION OF DISTRIBUTED PARAMETER SYSTEMS BY DYNAMIC PROGRAMMING.** FOND, SIMON CHING-SHENG (PH.D. 1975 UNIVERSITY OF CALIFORNIA, BERKELEY) 101p. 37/01-B. p.430 **BAJ76-15177**
- ON THE ECONOMICS AND DESIGN OF COMPUTER NETWORKS FOR DISTRIBUTED DATA PROCESSING.** MIKHAIL, OSAMA ISHAQ (PH.D. 1975 CARNEGIE-MELLON UNIVERSITY) 152p. 36/05-A. p.2468 **BAJ76-17846**
- PARALLEL COMPUTATIONAL SCHEMATA (PCS): A CONSTRUCTIVELY DETERMINATE MODEL WITH DYNAMIC OPERAND RESOLUTION AND DISTRIBUTED CONTROL.** LLOYD, STEPHEN CARROLL (PH.D. 1975 DORM UNIVERSITY) 213p. 36/03-B. p.1314 **BAJ76-19171**
- A TWO-LEVEL HIERARCHICAL CONTROL SYSTEM FOR A DISTRIBUTED NETWORK OF COMPUTERS.** EDWARDS, JUDITH A. (PH.D. 1975 THE UNIVERSITY OF OKLAHOMA) 180p. 36/08-B. p.4068 **BAJ76-23093**
- DISTRIBUTED PARALLEL COMPUTATION IN LAYERED NEURAL NETWORKS: SOME MODELS OF THE VISUAL SYSTEM.** DEV, PARVATI (PH.D. 1975 STANFORD UNIVERSITY) 139p. 36/12-B. p.6587 **BAJ76-13512**
- DISTRIBUTED-INTELLIGENCE**
- THE INFORMATION FLOW STRUCTURE WITHIN A DISTRIBUTED-INTELLIGENCE COMPUTER SYSTEM.** KING, KENNETH JOHN (PH.D. 1975 NORTHWESTERN UNIVERSITY) 102p. 36/07-B. p.3476 **BAJ76-29678**
- DISTRIBUTION**
- THE OPTIMAL DISTRIBUTION OF DEVICE-DEPENDENT GRAPHICS FUNCTIONS.** PUK, RICHARD FRANK (PH.D. 1976 PURDUE UNIVERSITY) 156p. 37/08-B. p.4057 **BAJ77-01764**
- DATA BASE DESIGN: OBJECT DISTRIBUTION AND RESOURCE-CONSTRAINED TASK SCHEDULING.** LOOMIS, MARY ELIZABETH (PH.D. 1975 UNIVERSITY OF CALIFORNIA, LOS ANGELES) 241p. 36/10-B. p.5142 **BAJ76-08999**
- SELECTIVE DOCUMENT DISTRIBUTION: AN OPERATIONAL EXPERIMENT.** BHAGAT, NAZIR ABDUL (D.B.A. 1975 HARVARD UNIVERSITY) 235p. 36/10-A. p.6349 **BAJ76-07413**
- DISTRIBUTION-FREE**
- FEATURE EXTRACTION AND DISTRIBUTION-FREE CLASSIFICATION IN PATTERN RECOGNITION.** FEHLAUER, JOHN (PH.D. 1977 DREXEL UNIVERSITY) 142p. 36/04-B. p.1826 **BAJ77-22528**
- DISTRIBUTIONS**
- ALGORITHMS FOR INCOMPLETELY SPECIFIED DISTRIBUTIONS IN A GENERALIZED GRAPH MODEL FOR MEDICAL DIAGNOSIS.** LEMMER, JOHN FRANCIS (PH.D. 1976 UNIVERSITY OF MARYLAND) 380p. 37/06-B. p.2870 **BAJ76-28190**
- DIVERSITY**
- EVALUATION AND ANALYSIS OF QUAD DIVERSITY TROPOSPHERIC COMMUNICATIONS LINKS FROM STRIP CHART DATA.** JAMES, RODNEY VIVIAN (PH.D. 1975 UNIVERSITY OF MISSOURI - COLUMBIA) 191p. 36/10-B. p.5180 **BAJ76-07508**
- DIVIDE**
- DIVIDE AND CONQUER ALGORITHMS FOR CLOSEST POINT PROBLEMS IN MULTIDIMENSIONAL SPACE.** BENTLEY, JON LOUIS (PH.D. 1976 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL) 107p. 36/02-B. p.783 **BAJ77-17405**
- DIVISION**
- A FAST DIVISION ALGORITHM.** DUM, STEPHEN ANTHONY (PH.D. 1975 OREGON STATE UNIVERSITY) 74p. 36/06-B. p.2918 **BAJ76-26055**
- DLCN**
- SYSTEM DESIGN OF THE DISTRIBUTED LOOP COMPUTER NETWORK (DLCN).** REAMES, CECIL CLAY (PH.D. 1976 THE OHIO STATE UNIVERSITY) 252p. 37/02-B. p.856 **BAJ76-18028**
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- DOCUMENT ANALYSIS, VERBS AND CASE GRAMMAR.** COURRIER, YVES GILBERT (PH.D. 1976 UNIVERSITY OF PITTSBURGH) 212p. 37/04-A. p.1850 **BAJ76-21787**
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- A DISTANCE MEASURE FOR AUTOMATIC SEQUENTIAL DOCUMENT CLASSIFICATION.** KAR, GAUTAM (PH.D. 1975 THE OHIO STATE UNIVERSITY) 189p. 36/11-B. p.5685 **BAJ76-09987**
- DOCUMENTATION**
- A SYSTEM TO MONITOR AND CONTROL THE DEVELOPMENT AND DOCUMENTATION OF A COMPUTER PROGRAMMING PROJECT.** ARSEVEN, SUSAN MARY (PH.D. 1975 TEXAS A&M UNIVERSITY) 227p. 36/05-B. p.2348 **BAJ76-26078**
- DOMAINS**
- FAST POISSON SOLVER ON NONRECTANGULAR DOMAINS.** SHIEH, ARTHUR SHAN-LUK (PH.D. 1976 NEW YORK UNIVERSITY) 114p. 37/09-B. p.4562 **BAJ77-05465**

- A COLLOCATION METHOD FOR PARABOLIC AND ELLIPTIC QUASILINEAR PROBLEMS ON GENERAL DOMAINS.** ASCHER, URI MICHAEL (PH.D. 1975 UNIVERSITY OF MINNESOTA) 188p. 37/01-B. p.332 **BAJ76-14886**
- DOMINANCE**
- FAULT DOMINANCE OF BRIDGING AND STUCK-AT FAULTS.** MEI, KENYON CHI-YEN (PH.D. 1975 STANFORD UNIVERSITY) 122p. 36/04-B. p.1855 **BAJ76-21888**
- DOWN**
- PATTIE: AN AUTOMATED TUTOR FOR TOP-DOWN PROGRAMMING.** DANIELSON, RONALD LEE (PH.D. 1975 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 121p. 36/09-B. p.4582 **BAJ76-06743**
- DRAWING**
- LDPS: A LINE DRAWING PROCESSING SYSTEM FOR INTERACTIVE STORAGE, RETRIEVAL AND EDITING.** YOO, JAE KOOK (PH.D. 1975 THE UNIVERSITY OF FLORIDA) 175p. 36/12-B. p.6275 **BAJ76-12152**
- DRAWINGS**
- DIGITAL REPRESENTATION FOR STORAGE AND EDITING OF LINE DRAWINGS.** SZABO, NICHOLAS SIGISMUND (D.ENG. 1976 UNIVERSITY OF CALIFORNIA, BERKELEY) 203p. 37/09-B. p.4563 **BAJ77-04350**
- DRIFTER**
- COMPUTER SIMULATION IN THE ANALYSIS OF SURFACE CURRENT DRIFTER DATA.** PILGRIM, PHILIP CHARLES (PH.D. 1975 THE UNIVERSITY OF MICHIGAN) 270p. 36/10-B. p.5144 **BAJ76-09490**
- DUAL**
- COMBINED PRIMAL-DUAL AND PENALTY FUNCTION ALGORITHMS FOR NONLINEAR PROGRAMMING.** KORT, BARRY WARREN (PH.D. 1976 STANFORD UNIVERSITY) 224p. 36/12-B. p.6346 **BAJ76-13028**
- DUALITY**
- SURROGATE CONSTRAINT DUALITY AND EXTENSIONS IN INTEGER PROGRAMMING.** KARWAN, MARK HENRY (PH.D. 1976 GEORGIA INSTITUTE OF TECHNOLOGY) 136p. 37/10-B. p.5312 **BAJ77-08542**
- DYNAMIC**
- OPTIMAL CONTROL AND ESTIMATION OF SINGULAR SYSTEMS.** YONEZAKA, KATSUO (PH.D. 1977 UNIVERSITY OF CALIFORNIA, LOS ANGELES) 124p. 36/02-B. p.866 **BAJ77-18203**
- THE DEPARTMENT OF DEFENSE PROPERTY DISPOSAL SERVICE: A COMPUTERIZED LOCATION-ALLOCATION MODEL USING DYNAMIC PROGRAMMING WITH CONVERGING BRANCHES AND MULTIDIMENSIONAL STATE AND DECISION VARIABLES.** KRELL, BRUCE EDWARD (PH.D. 1977 UNIVERSITY OF HOUSTON) 285p. 36/03-B. p.1375 **BAJ77-18288**
- DYNAMIC MEMORY ALLOCATION IN A VIRTUAL MEMORY COMPUTER.** BUDZINSKI, ROBERT LUCIUS (PH.D. 1977 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 146p. 36/01-B. p.296 **BAJ77-14931**
- THE USE OF DYNAMIC ASSERTIONS TO IMPROVE SOFTWARE QUALITY.** STUCKI, LEON GEORGE (PH.D. 1976 UNIVERSITY OF CALIFORNIA, LOS ANGELES) 186p. 37/04-B. p.1779 **BAJ76-22216**
- DYNAMIC STORAGE ALLOCATION TECHNIQUES.** WEINSTOCK, CHARLES BURR (PH.D. 1976 CARNEGIE-MELLON UNIVERSITY) 123p. 37/03-B. p.1340 **BAJ76-19980**
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- DYNAMIC MEMORY MANAGEMENT ALGORITHMS IN A PAGED MEMORY ENVIRONMENT.** BURRIS, DAVID SHERWIN (PH.D. 1976 TEXAS A&M UNIVERSITY) 122p. 37/03-B. p.1334 **BAJ76-20570**
- DYNAMIC TASK SCHEDULING IN A SHARED RESOURCE MULTIPROCESSOR.** JENSEN, JOHN ELLIOT (PH.D. 1976 UNIVERSITY OF WASHINGTON) 139p. 37/07-B. p.3511 **BAJ77-00589**
- OPTIMIZATION OF DISTRIBUTED PARAMETER SYSTEMS BY DYNAMIC PROGRAMMING.** FOND, SIMON CHING-SHENG (PH.D. 1975 UNIVERSITY OF CALIFORNIA, BERKELEY) 101p. 37/01-B. p.430 **BAJ76-15177**
- DYNAMIC PROGRAMMING WITH NEGATIVE REWARDS AND AVERAGE REWARD CRITERION.** AWATE, PRAKASH GAJANAN (PH.D. 1975 CORNELL UNIVERSITY) 142p. 36/09-B. p.4655 **BAJ76-05893**
- ON THE PROBLEM OF DYNAMIC MEMORY MANAGEMENT.** TING, DENNIS WAY (PH.D. 1975 CORNELL UNIVERSITY) 94p. 36/11-B. p.5887 **BAJ76-09857**
- AN INTERACTIVE OPTIMIZATION COMPONENT FOR SOLVING PARAMETER ESTIMATION AND POLICY DECISION PROBLEMS IN LARGE DYNAMIC MODELS.** SCHNER, MARCUS ROBERT (PH.D. 1975 MICHIGAN STATE UNIVERSITY) 186p. 36/09-B. p.4653 **BAJ76-05526**
- AN ADAPTIVE DELTA-MODULATION SCHEME WITH LARGE DYNAMIC RANGE ANALYSIS AND APPLICATIONS.** O'CONNOR, MICHAEL JOSEPH (PH.D. 1975 OHIO UNIVERSITY) 166p. 36/11-B. p.5725 **BAJ76-10313**
- A DYNAMIC SIMULATION MODEL OF RESIDENTIAL LOCATION.** CLARK, RONALD RAY (PH.D. 1975 POLYTECHNIC INSTITUTE OF NEW YORK) 168p. 36/04-B. p.1888 **BAJ76-21355**
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- TRANSIENT PROBABILITY MODELS OF COMPUTING SYSTEM DYNAMIC BEHAVIOR.** LITZLER, WILFRED SHELLEY (PH.D. 1975 THE UNIVERSITY OF TEXAS AT AUSTIN) 125p. 36/01-B. p.2395 **BAJ76-24903**
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- DYNAMIC-TYPE**
- A DYNAMIC-TYPE PROGRAMMING LANGUAGE THAT ALLOWS TYPE CONTROL.** SNEERINGER, WILLIAM JAMES IV (PH.D. 1975 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL) 157p. 36/06-B. p.2921 **BAJ76-29077**
- DYNAMICAL**
- COMPUTER ASPECTS OF DYNAMICAL OPTIMIZATION.** SHI, SAN-YEN (PH.D. 1976 STATE UNIVERSITY OF NEW YORK AT STONY BROOK) 80p. 37/11-B. p.5778 **BAJ77-10747**
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- A COMPUTER SIMULATION MODEL OF LAND USE DYNAMICS IN THE STATE OF OREGON.** CALLIGAN, CHRISTOPHER CRAM (PH.D. 1975 OREGON STATE UNIVERSITY) 183p. 36/05-B. p.2432 **BAJ76-28063**
- EARLY**
- THE EARLY STAGES OF MACHINE PERCEPTION: AN APPLICATION TO READING MACHINES.** WILD, JOHN CHRISTIAN, JR. (PH.D. 1977 RUTGERS UNIVERSITY THE STATE U. OF NEW JERSEY (NEW BRUNSWICK)) 263p. 36/02-B. p.787 **BAJ77-17678**
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- ECONOMICS**
- USES AND ABUSES OF ENTROPY IN ECONOMICS.** BRUMAT, CARLO MARIA (PH.D. 1976 UNIVERSITY OF CALIFORNIA, LOS ANGELES) 111p. 37/03-A. p.1280 **BAJ76-20191**
- FAULT DETECTION: STATE BEHAVIOR, MACHINE DECOMPOSITION AND ECONOMICS.** GROVER, LARRY LEE (PH.D. 1976 MICHIGAN STATE UNIVERSITY) 154p. 37/09-B. p.4560 **BAJ77-05809**
- ON THE ECONOMICS AND DESIGN OF COMPUTER NETWORKS FOR DISTRIBUTED DATA PROCESSING.** MIKHAIL, OSAMA ISHAQ (PH.D. 1975 CARNEGIE-MELLON UNIVERSITY) 152p. 36/05-A. p.2466 **BAJ76-17846**
- ECS**
- A NEW COMPUTER CRYPTOGRAPHY: THE EXPANDED CHARACTER SET (ECS) CIPHER.** NEAT, CHARLIE EDMUND (PH.D. 1975 UNIVERSITY OF CALIFORNIA, LOS ANGELES) 328p. 36/08-B. p.4072 **BAJ76-03048**
- EDGE**
- ROBUST STATISTICAL TECHNIQUES IN PATTERN RECOGNITION: GRAY-LEVEL AND EDGE DETECTION.** LEGAKIS, PANAGIOTIS I. (PH.D. 1976 POLYTECHNIC INSTITUTE OF NEW YORK) 198p. 37/04-B. p.1822 **BAJ76-23427**
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- DIGITAL REPRESENTATION FOR STORAGE AND EDITING OF LINE DRAWINGS.** SZABO, NICHOLAS SIGISMUND (D.ENG. 1976 UNIVERSITY OF CALIFORNIA, BERKELEY) 203p. 37/09-B. p.4562 **BAJ77-04350**
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- A STRATEGY FOR THE PROCUREMENT OF COMPUTERS FOR INSTITUTIONS OF HIGHER EDUCATION IN ARKANSAS.** SHANKLE, JIMMY E. (ED.D. 1976 UNIVERSITY OF ARKANSAS) 528p. 37/05-B. p.2378 **BAJ76-26443**
- THE ORGANIZATIONAL IMPACTS OF COMPUTER-BASED INFORMATION SYSTEMS: AN ORGANIZATION DEVELOPMENT APPROACH AND CASE STUDY OF CENTRALIZED SYSTEMS IN HIGHER EDUCATION.** DEMB, ADA BARBARA (ED.D. 1975 HARVARD UNIVERSITY) 387p. 36/11-A. p.7024 **BAJ76-10559**
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- EIGENPROBLEMS**
- AN ITERATIVE BLOCK LANCZOS METHOD FOR THE SOLUTION OF LARGE SPARSE SYMMETRIC EIGENPROBLEMS.** UNDERWOOD, RICHARD RAY (PH.D. 1975 STANFORD UNIVERSITY) 138p. 36/05-B. p.2358 **BAJ76-25622**
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- ALGORITHMS FOR SPARSE MATRIX EIGENVALUE PROBLEMS.** LEWIS, JOHN GREGG (PH.D. 1977 STANFORD UNIVERSITY) 213p. 36/03-B. p.1289 **BAJ77-18224**
- THE NUMERICAL SOLUTION OF THE EIGENVALUE PROBLEM FOR INTEGRAL OPERATORS USING THE METHOD OF PROJECTIONS.** WANG, JESSE YI-SHING (PH.D. 1976 WASHINGTON STATE UNIVERSITY) 71p. 37/04-B. p.1780 **BAJ76-21401**
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- EVALUATION OF ELECTRO-OPTICAL SYSTEMS OPERATING IN TURBULENT MEDIA.** HSING, TO RUSSELL (PH.D. 1977 UNIVERSITY OF RHODE ISLAND) 215p. 36/04-B. p.1828 **BAJ77-22178**

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AN ANALOG/HYBRID COMPUTER SOLUTION OF ELECTROMAGNETIC SCATTERING PROBLEMS. COFFEY, EDGAR LITTLETON, III (PH.D. 1978 VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY) 220p 37/05-B. p.2418 **BAJ78-24317**

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PARTITIONING OF WEIGHTED HYPERGRAPHS DRIVER. HENRY HARCIS (PH.D. 1977 UNIVERSITY OF DELAWARE) 198p 38/04-B. p.1794 **BAJ77-20543**

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COMPUTER-PRODUCED FACES AS AN ICONIC DISPLAY FOR COMPLEX DATA. JACOB, ROBERT JOSEPH KASSEL (PH.D. 1976 THE JOHNS HOPKINS UNIVERSITY) 203p 37/04-B. p.1776 **BAJ78-22928**

IMAGE

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A MAXIMUM LIKELIHOOD APPROACH TO IMAGE RECONSTRUCTION. ROCKMORE, ANTHONY JOSEPH (PH.D. 1977 STANFORD UNIVERSITY) 120p 37/12-B. p.8281 **BAJ77-12689**

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A REMOTE DISPLAY SYSTEM UTILIZING COMPRESSED DATA TRANSMISSION. CRENSHAW, EDELL GLEN (PH.D. 1977 THE PENNSYLVANIA STATE UNIVERSITY) 163p 38/02-B. p.826 **BAJ77-17681**

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ROBUSTIFIED ESTIMATION AND IMAGE PROCESSING. KADAR, IVAN (PH.D. 1977 POLYTECHNIC INSTITUTE OF NEW YORK) 283p 38/04-B. p.1828 **BAJ77-21073**

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- THEORETICAL LIMITATIONS ON THE USE OF PARALLEL MEMORIES. SHAPIRO, HENRY DAVID (PH.D. 1976 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 109p. 37/01-B. p.339 **BAJ78-18195**
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- DYNAMIC MEMORY ALLOCATION IN A VIRTUAL MEMORY COMPUTER. BUDZINSKI, ROBERT JACIUS (PH.D. 1977 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 148p. 38/01-B. p.296 **BAJ77-14931**
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- METANOVEL**
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- METRIC**
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- MICROCAPTURE**
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- A MACHINE INDEPENDENT APPROACH TO THE PRODUCTION OF OPTIMIZED MICROCODE. DEWITT, DAVID JOHNS (PH.D. 1976 THE UNIVERSITY OF MICHIGAN) 250p. 37/06-B. p.2987 **BAJ78-27474**
- MICROCOMPUTER**
- NONLINEAR CIRCUIT SIMULATION ON A PARALLEL MICROCOMPUTER SYSTEM. WONG, YUE MIN (PH.D. 1976 CORNELL UNIVERSITY) 142p. 37/11-B. p.5779 **BAJ77-11030**
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- MICROPROCESSOR**
- AN INTEL 8080 MICROPROCESSOR IMPLEMENTATION OF A NAVIGATION ALGORITHM FOR THE LOW-COST GPS (+ GLOBAL POSITIONING SYSTEM) RECEIVER. SURARATRUNGSI, SONGSUK (PH.D. 1977 TEXAS A&M UNIVERSITY) 59p. 38/04-B. p.1834 **BAJ77-20418**
- A HIERARCHICAL RESTRUCTURABLE MULTI-MICROPROCESSOR ARCHITECTURE. ARNOLD, ROBERT GLEN (PH.D. 1976 RICE UNIVERSITY) 166p. 37/04-B. p.1775 **BAJ78-21682**
- A MICROPROCESSOR DESIGN FOR EFFICIENT IMPLEMENTATION OF APL. MINTER, CHARLES RUSSELL (PH.D. 1976 YALE UNIVERSITY) 285p. 37/06-B. p.2972 **BAJ78-29205**
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MICROPROCESSOR-BASED

- A MICROPROCESSOR-BASED DATA ACQUISITION AND PROCESSING SYSTEM FOR STUDYING THE KINEMATICS OF ABOR. FENG, CHIN-HU (PH.D. 1977 CASE WESTERN RESERVE UNIVERSITY) 123p 38/03-B. p.1288 **BAJ77-18819**
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- AN INVESTIGATION OF THE APPLICATION OF MICROPROCESSORS TO LOW COST AREA NAVIGATION CAPABILITIES FOR GENERAL AVIATION. SMITH, WAYNE DOUGLASS (PH.D. 1976 UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN) 151p 37/10-B. p.5214 **BAJ77-09193**
- A UNIFIED APPROACH TO DEVELOPMENT OF HIGH-LEVEL LANGUAGE PROGRAMS FOR MICROPROCESSORS. CHENNAPPAN, KUPPUSAMI CHETTIAR (PH.D. 1976 TEXAS TECH UNIVERSITY) 128p 37/10-B. p.5257 **BAJ77-08741**

MICROPROGRAM

- REGISTER-TRANSFER LEVEL SIMULATION OF MICROPROGRAM CONTROLLED PROCESSORS AS A BASIS FOR EVALUATING DIGITAL COMPUTER SYSTEM DESIGNS. LITTLE, ROBERT RAINY (PH.D. 1977 LOUISIANA TECH UNIVERSITY) 95p 38/03-B. p.1200 **BAJ77-18816**
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PRODUCTION

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- THE FORMATION OF TEMPLATES FROM NATURAL DATA PATTERNS** MELEN, ROBERT EDWARD (PH.D. 1977 STANFORD UNIVERSITY) 118p 38/03-B. p 1337 **BAJ77-18227**
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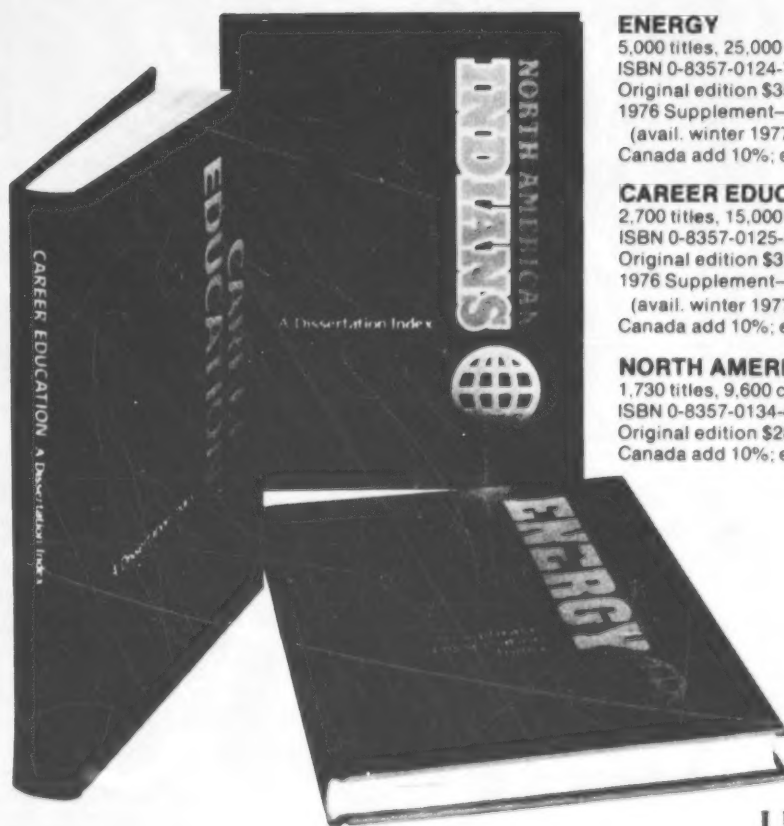
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